

28th June 2013

## FM Crystal Radio

Build a battery free FM crystal radio using 1mm silver plated copper wire



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This FM radio runs without battery and you can listen to FM radio by just

placing this close to your window.

If reception is not good, you can attach an external FM antenna (or with antenna amplifier), instead of using the 1.2M radio antenna.

Parts you will need:

A Diode that works in high frequency (200Mhz or above, e.g. AA112, 1N34A, 1N48, 1SS86 or 1SS106.

A 0-12 pf AIR Variable capacitor - you can get a 0-22pf one, then remove all the copper plates and leave just 4.

50pf and 180pf fixed ceramic capacitor

100K 1/4W resistor

33uH Choke coil.

Silver plated copper wire 1mm diameter

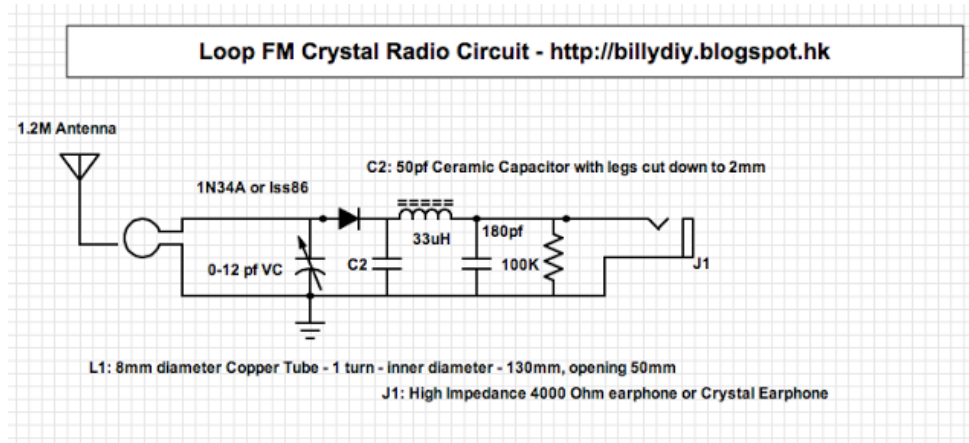
1.2meter radio antenna.

3.5mm mini headphone jack

A high impedance 4K Ohm earphone or a crystal earphone.



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